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	Application No.	Applicant(s)	
	10/081,533	UDAGAWA ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Susan W Berman	1711	
The MAILING DATE of this communication application application application application on the MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED in 5) or other appropriate communication is second to the RIGHTS. This application is second to the communication in the communication in the communication is second to the communication in the c	n this application. If not included unication will be mailed in due cou	ırse. THIS
1. \boxtimes This communication is responsive to <u>Election filed 12-05</u>	<u>i-03</u> .		
2. The allowed claim(s) is/are 4,5 and 9-22.			
3. \boxtimes The drawings filed on <u>25 February 2002</u> are accepted by	the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None lone lone	eve been received. Ave been received in Application documents have been received. E" of this communication to file NMENT of this application. Committed. Note the attached EXA ives reason(s) why the oath of the submitted. Erson's Patent Drawing Review. Er's Amendment / Comment of the the header according to 37 CF cosit of BIOLOGICAL MATION.	on No In this national stage application In a reply complying with the require AMINER'S AMENDMENT or NOT redeclaration is deficient. In the Office action of the drawings in the front (not the back 1.121(d). ERIAL must be submitted. Not	rements TICE OF
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SE Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposi of Biological Material	6. Interview S Paper No. B/08), 7. Examiner's	oformal Patent Application (PTO-1 ummary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for Allowa	
		Susan W Berman Primary Examiner Art Unit: 1711	

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04) Application/Control Number: 10/081,533

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Election/Restrictions

Applicant's election without traverse of Group II in Paper No. submitted 12-05-2003 is acknowledged.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with William Fisher on February 23, 2004.

The application has been amended as follows:

Cancel claims 1-3.

In claim 4, line 5,, delete "room" and insert therefor -- a -- and after "temperature" insert between -30 and $50\,^{\circ}$ C --.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: The instantly claimed method for producing a radiation-modified poly(tetrafluoroethylene), "PTFE", resin feed from unsintered poly(tetrafluoroethylene) is distinguished from the prior art known to the examiner by treatment with ionizing radiation in an absorbed dose of no more than 1,000Gy in air and within the recited temperature range. The cited prior art also fails to mention lowering the melting point without changing the quantities of heat of fusion and heat of crystallization, as set forth in the instant claims.

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The closest prior art is cited below:

JP 2001/329069 (Abstract) appears to disclose irradiating PTFE in a low oxygen atmosphere at heat beyond the melting point. Brown et al (4,036,718) disclose a process of irradiation of unsintered PTFE at a dose from 200 to 20,000 Gy. Causton et al disclose subjecting a PTFE coating on a cutting edge to ionizing radiation in the presence of an oxygen-containing gas at a does of up to 50 Mrads (1 Mrad is equivalent to 1,000 Gy). Dillon (3,766,031) discloses treating sintered or unsintered PTFE by irradiation at a does from about 5 Mrads to about 25 Mrads at a temperature that does not rise above 250 °C. Derbyshire (4,220,511) discloses treatment of sintered PTFE with irradiation in the presence of air or oxygen at a does from 50 to 150 Mrads at a temperature between 150 °F and 600 °F and subsequent heating at temperatures below the melting point of the material to yield fine powders. Knobel et al (5,916,929) disclose a method for repeated irradiating of organic polymers such as PTFE at a dose between 0.1 and 300 Mrads under specific conditions of depth to improve the flow rate and millability. Tabata et al (5,444,103) disclose exposing PTFE to ionizing radiation at a does of at least 100kGy in the absence of oxygen at a temperature not lower than the crystal melting point of the starting PTFE to improve radiation resistance and rubber characteristics.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Susan W Berman whose telephone number is 571 272 1067. The examiner can normally be reached on M-F 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on 571 272 1078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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